

FIG.1

2: SPEECH WAVEFORM COMPOSING MEANS

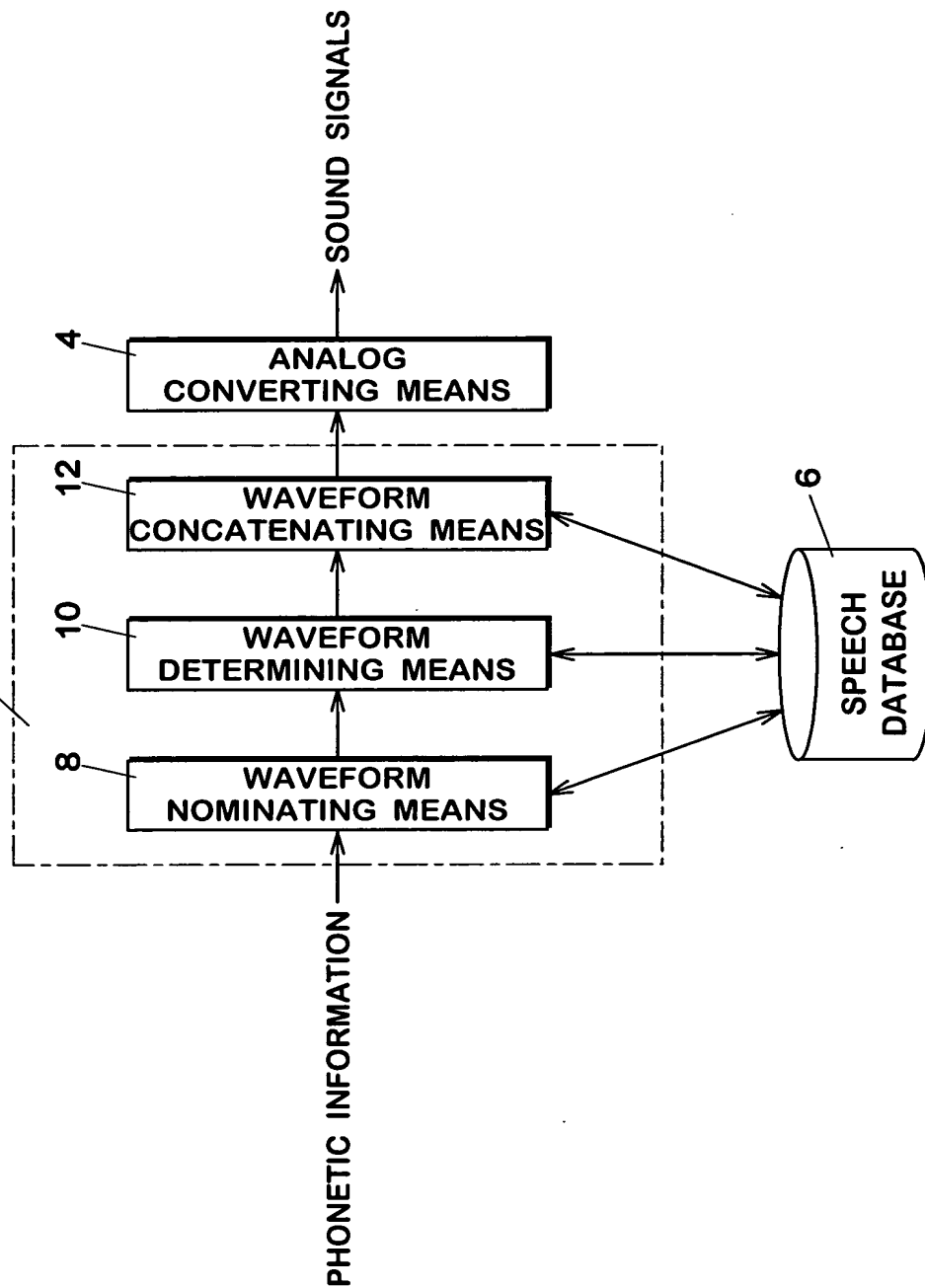


FIG.2

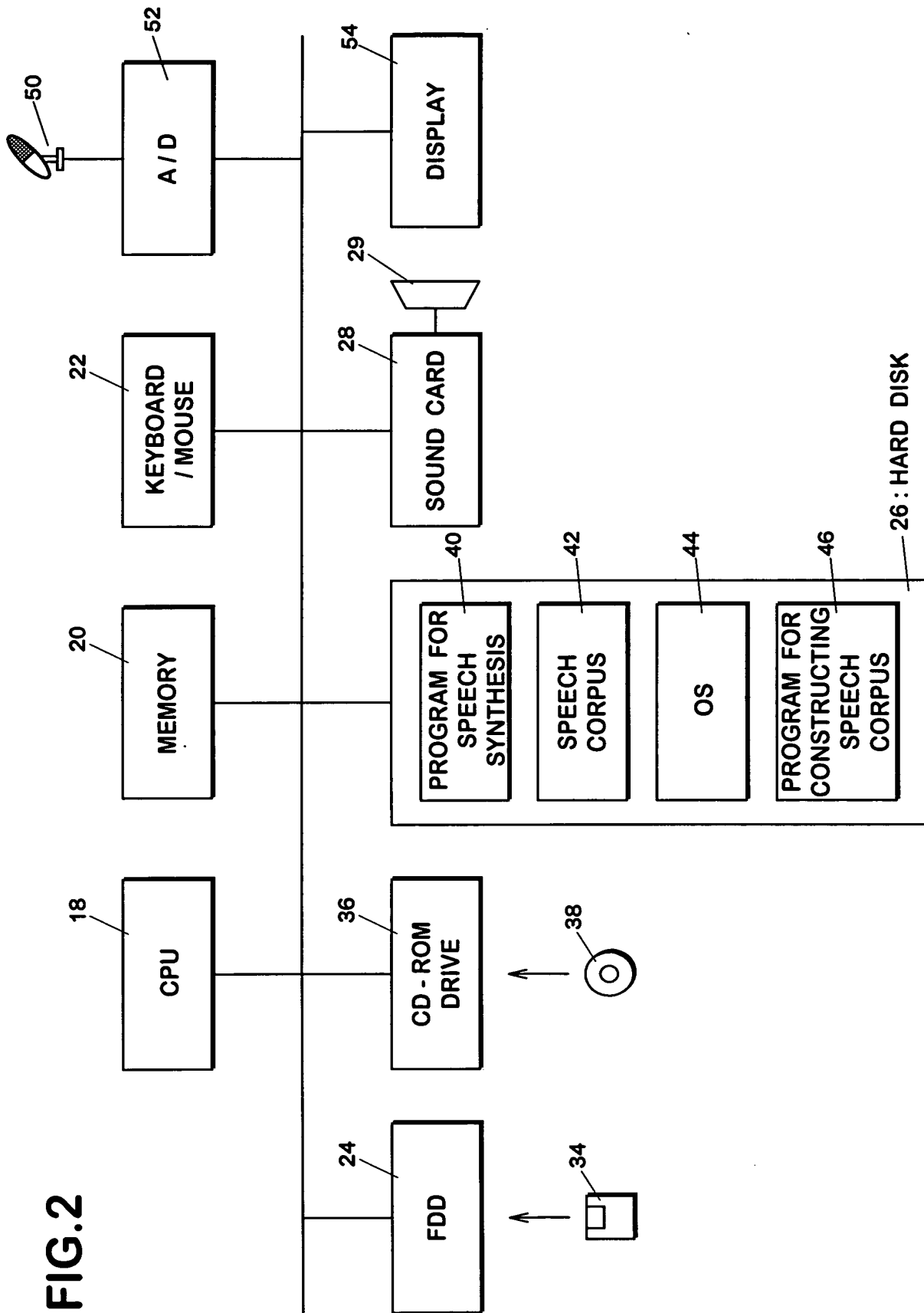
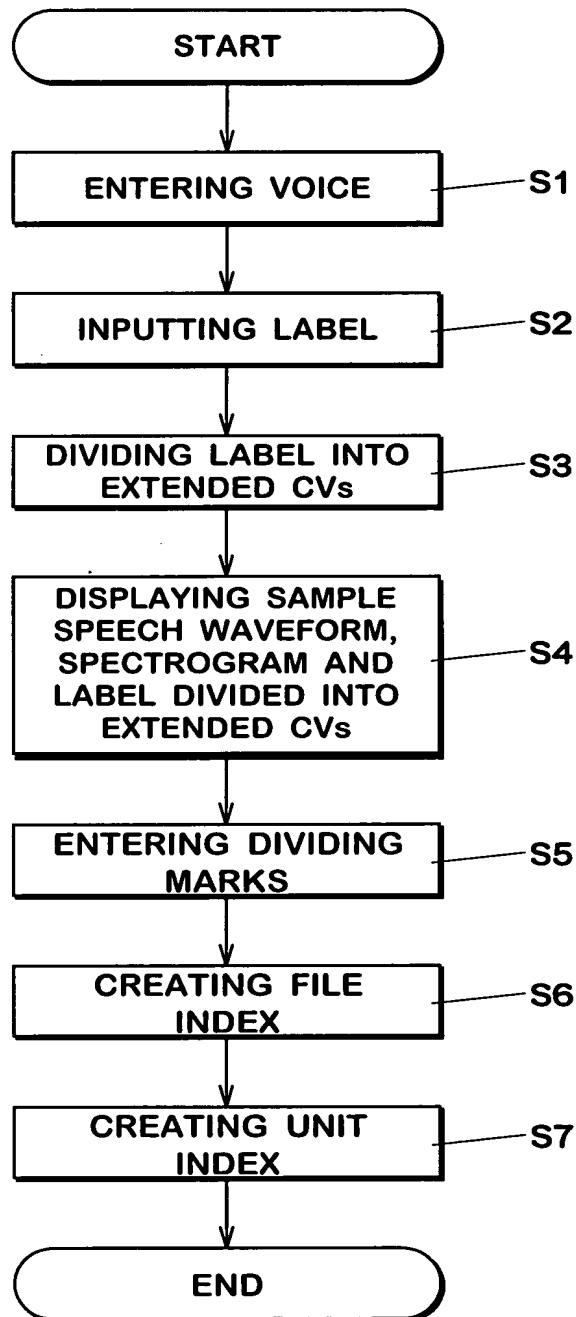


FIG.3

SPEECH CORPUS CONSTRUCTING PROGRAM



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FIG.4A



FIG.4B

ra i u chu : i ho : ga

FIG.5

CONSTRUCTION OF EXTENDED CV

EXTENDED CV

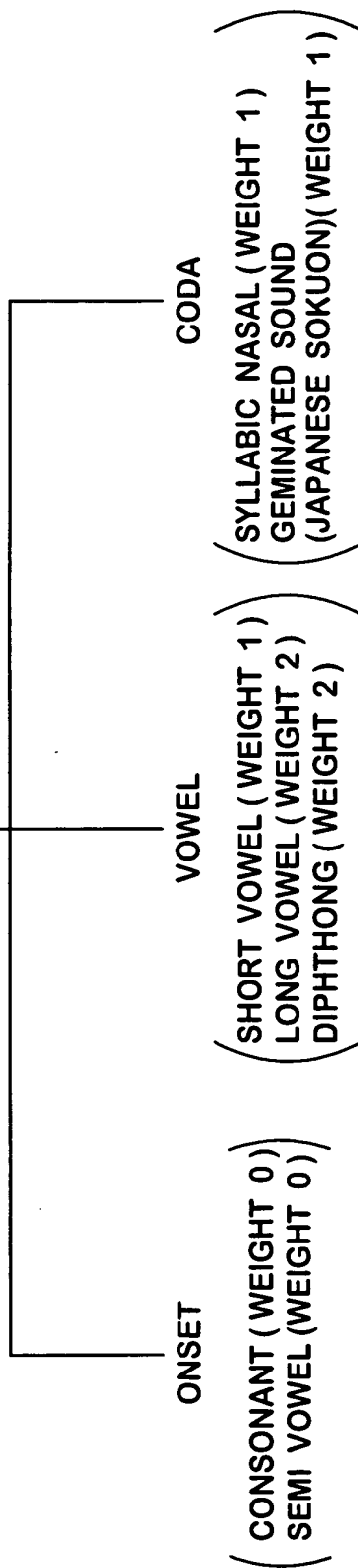


FIG.6

SYLLABLE WEIGHT	TYPE OF SYLLABLE WEIGHT	SYLLABLE CONSTRUCTURE	EXAMPLE
1	LIGHT SYLLABLE	(C) (y) V	ka, sa, ta, na, ha, ma, ya, ra,... a, i, u, e, o, che, pya,....
2	HEAVY SYLLABLE	(C) (y) V R (C) (y) V J (C) (y) V N (C) (y) V Q	to: , ya:, kyu:, pyu:,... kai, nou, ai, ui, pyua,... kaN, aN, myaN, chaN,... chuQ, ryaQ, jaQ, hyaQ,...
3 OR MORE	SUPER HEAVY SYLLABLE	(C) (y) V R N (C) (y) V R Q (C) (y) V J N (C) (y) V J Q (C) (y) V N Q AND THE LIKE	che:N, ju:N, a:N, ... u:Q, che:Q,... saiN, pauN, auN, chaiN,... kaiQ, daiQ, kyaiQ, uiQ,... doNQ, uNQ, chaNQ,...

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FIG. 7

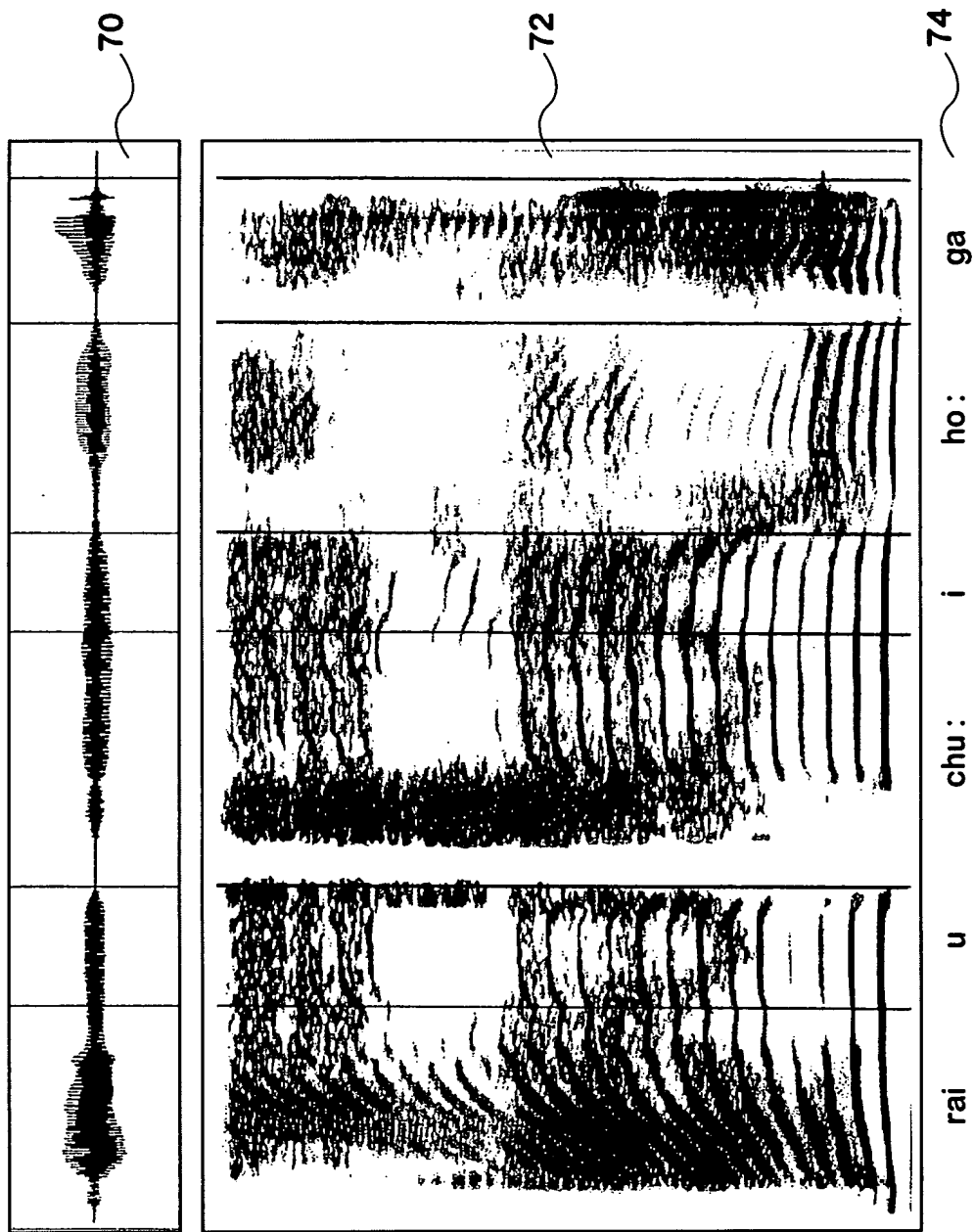


FIG.8

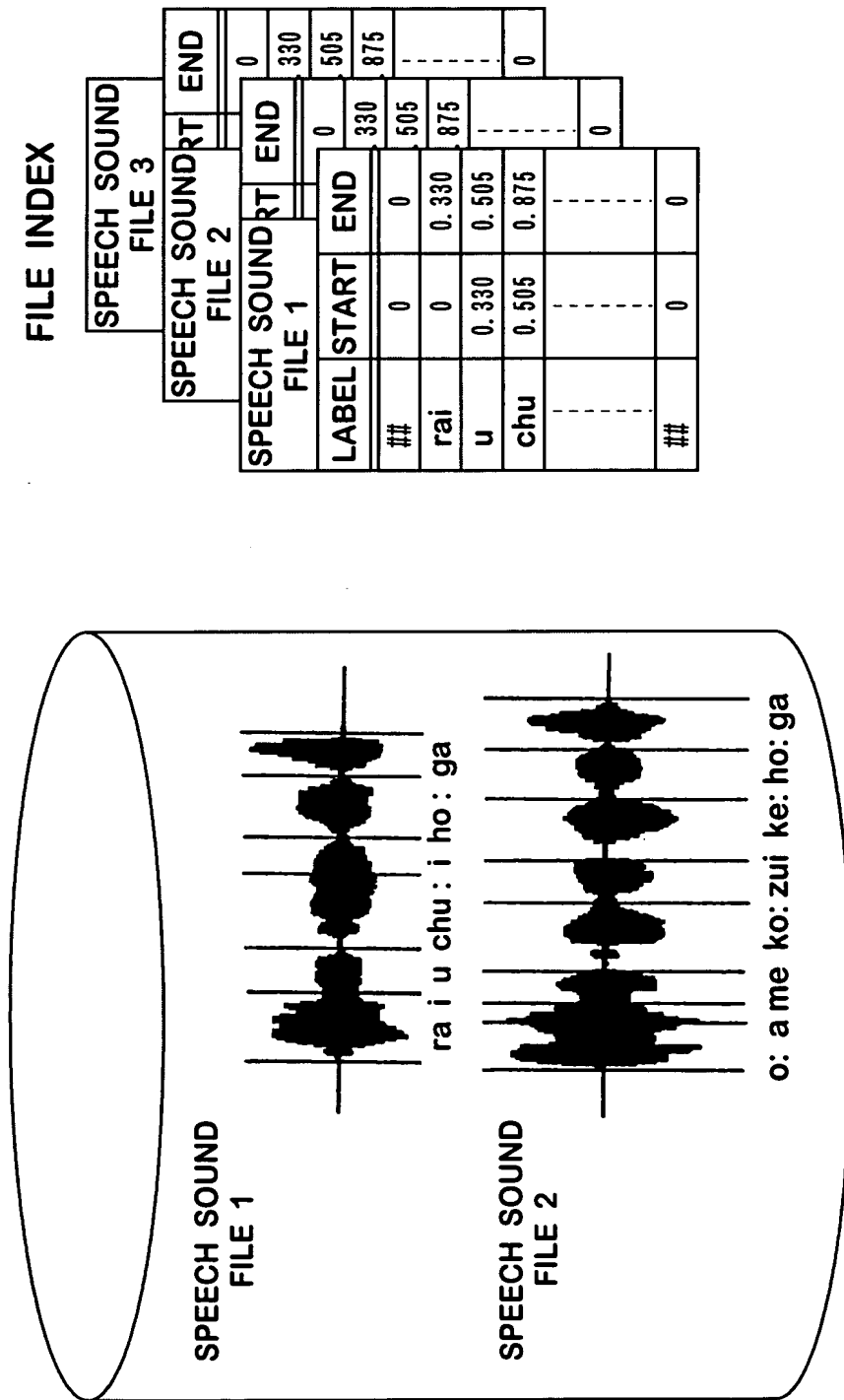
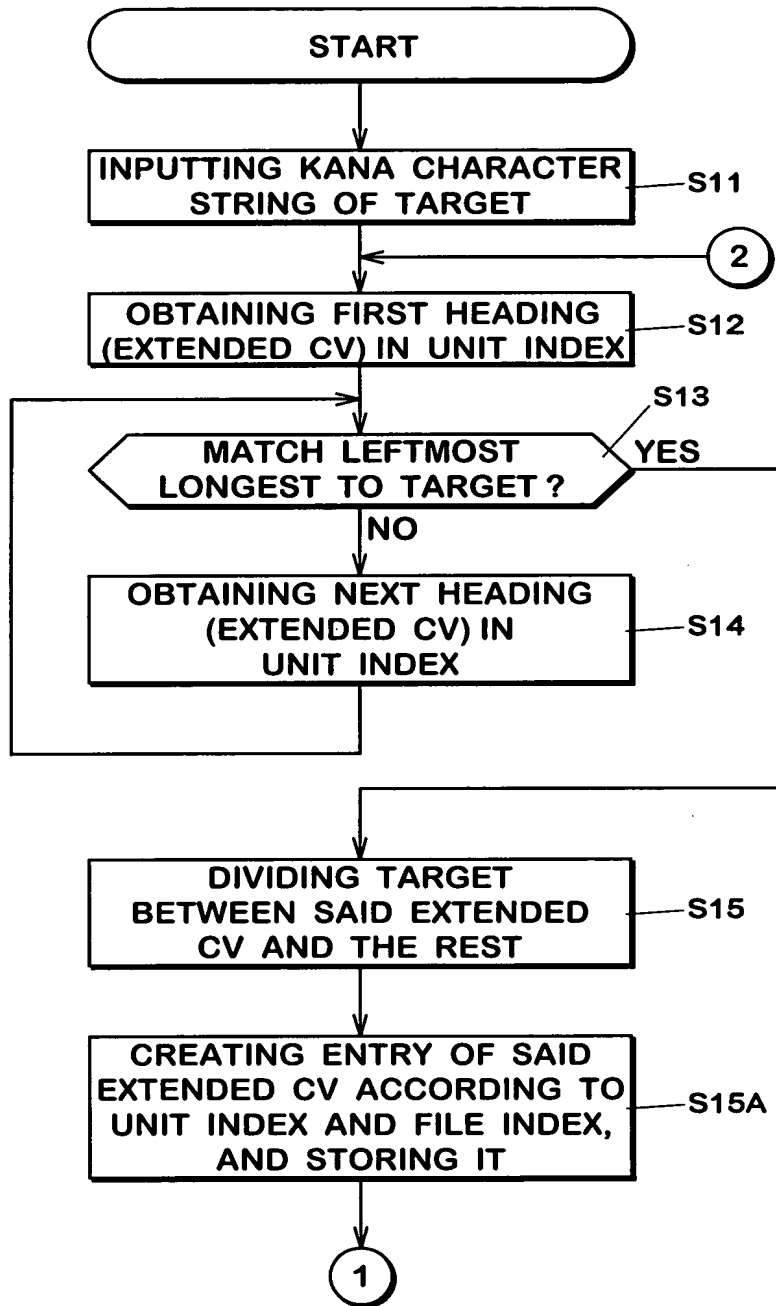


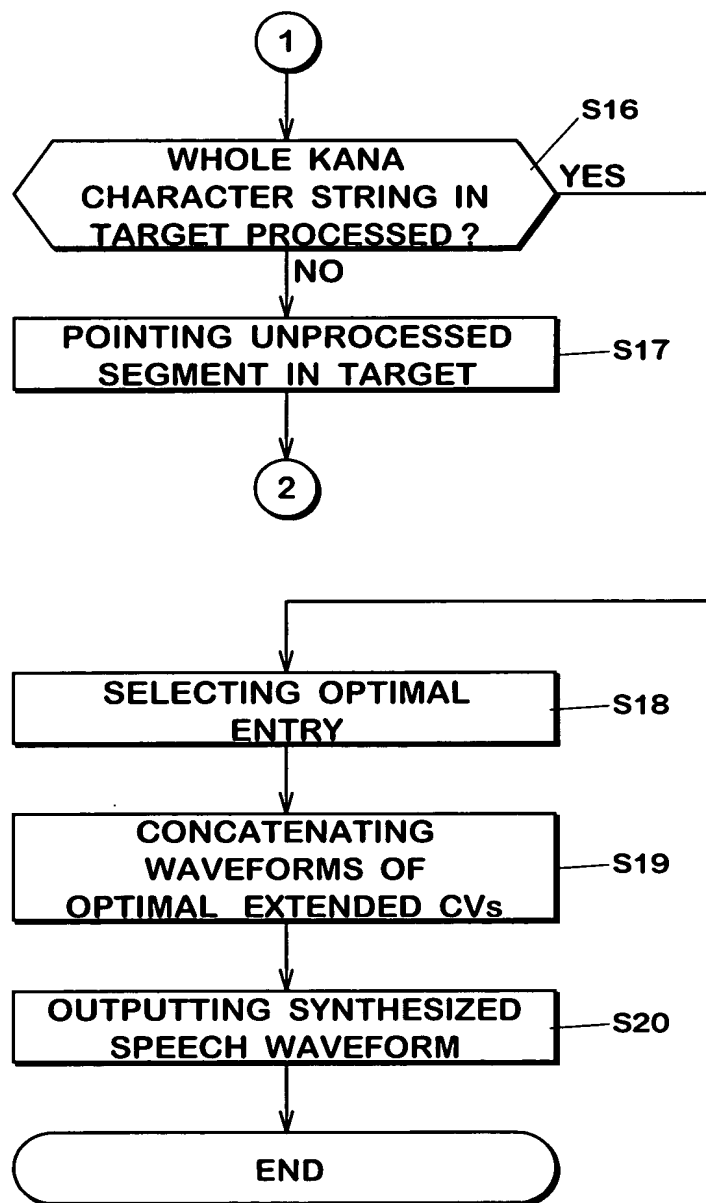
FIG.10

<SPEECH SYNTHESIS PROCESSING PROGRAM>



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FIG.11



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FIG.12A

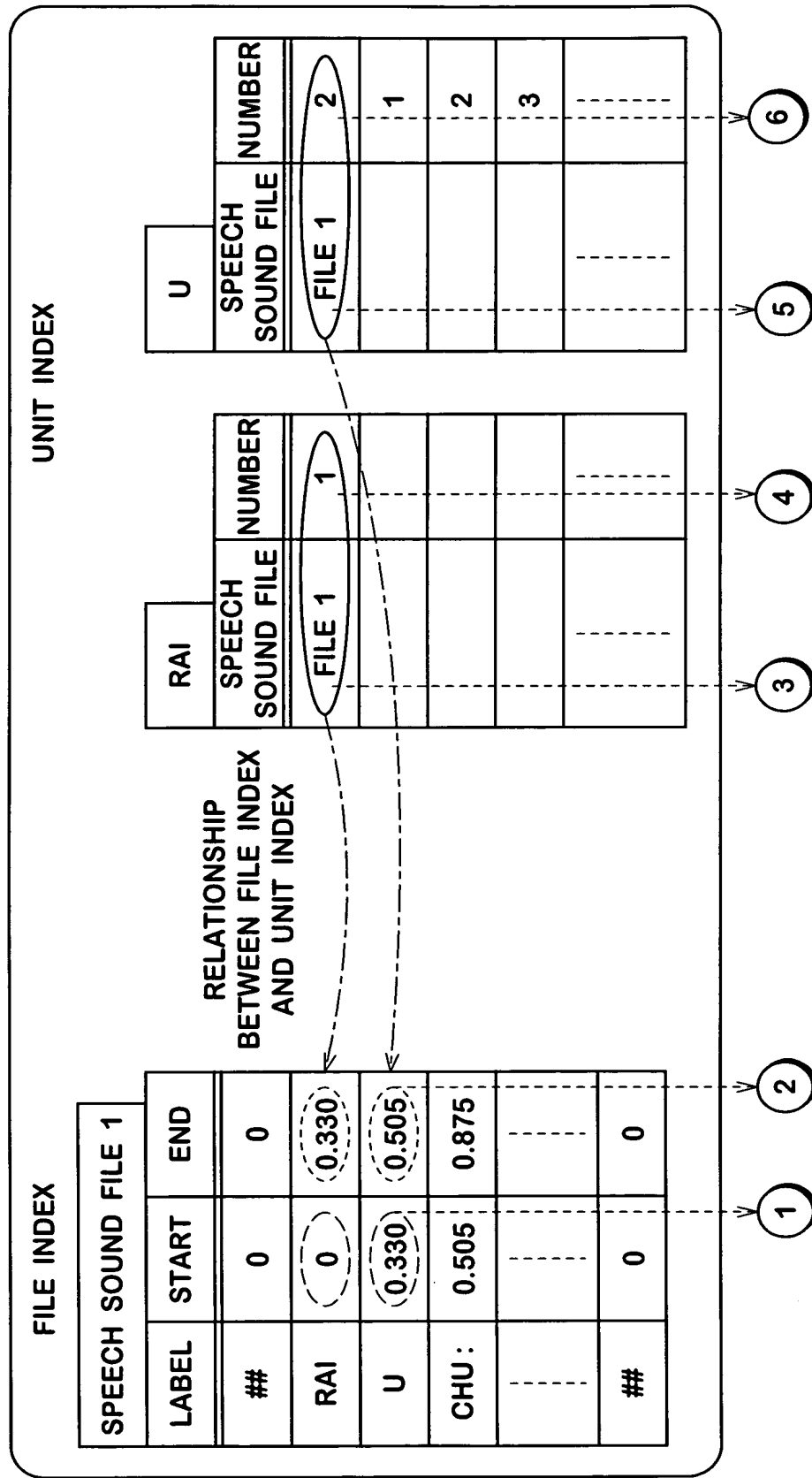


FIG.12C

SELECT THE OPTIMAL SPEECH UNIT WHICH MINIMIZES
ENVIRONMENT DISTORTION AND CONTINUITY DISTORTION

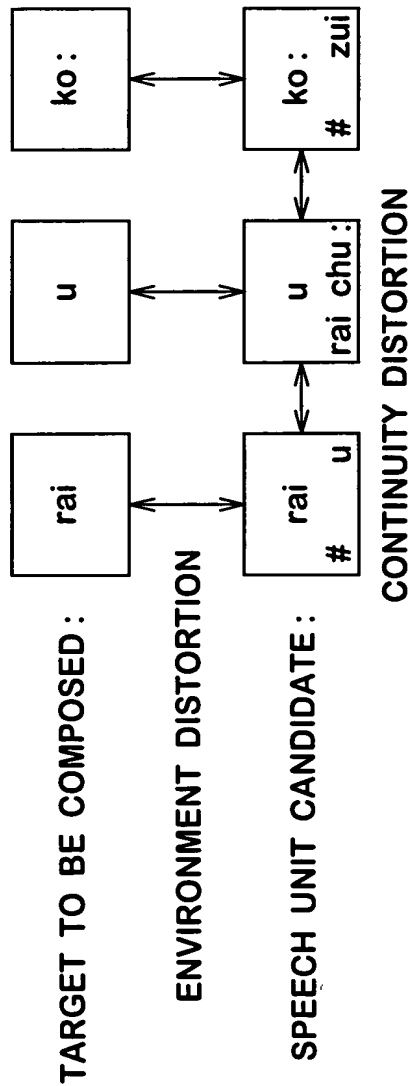
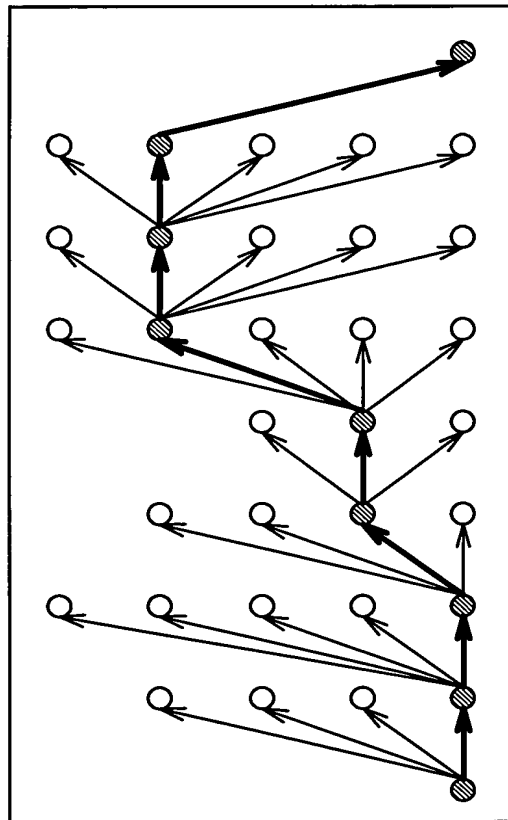


FIG.13

EXTENDED CV
CANDIDATE



RA I U KO: ZUI KE: HO: GA

SPEECH UNIT SEQUENCE OF THE TARGET TO BE COMPOSED
(● IS THE OPTIMAL SPEECH UNIT)
(→ IS THE OPTIMAL SEQUENCE OF SPEECH UNIT CANDIDATES)

FIG.14



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FIG.15

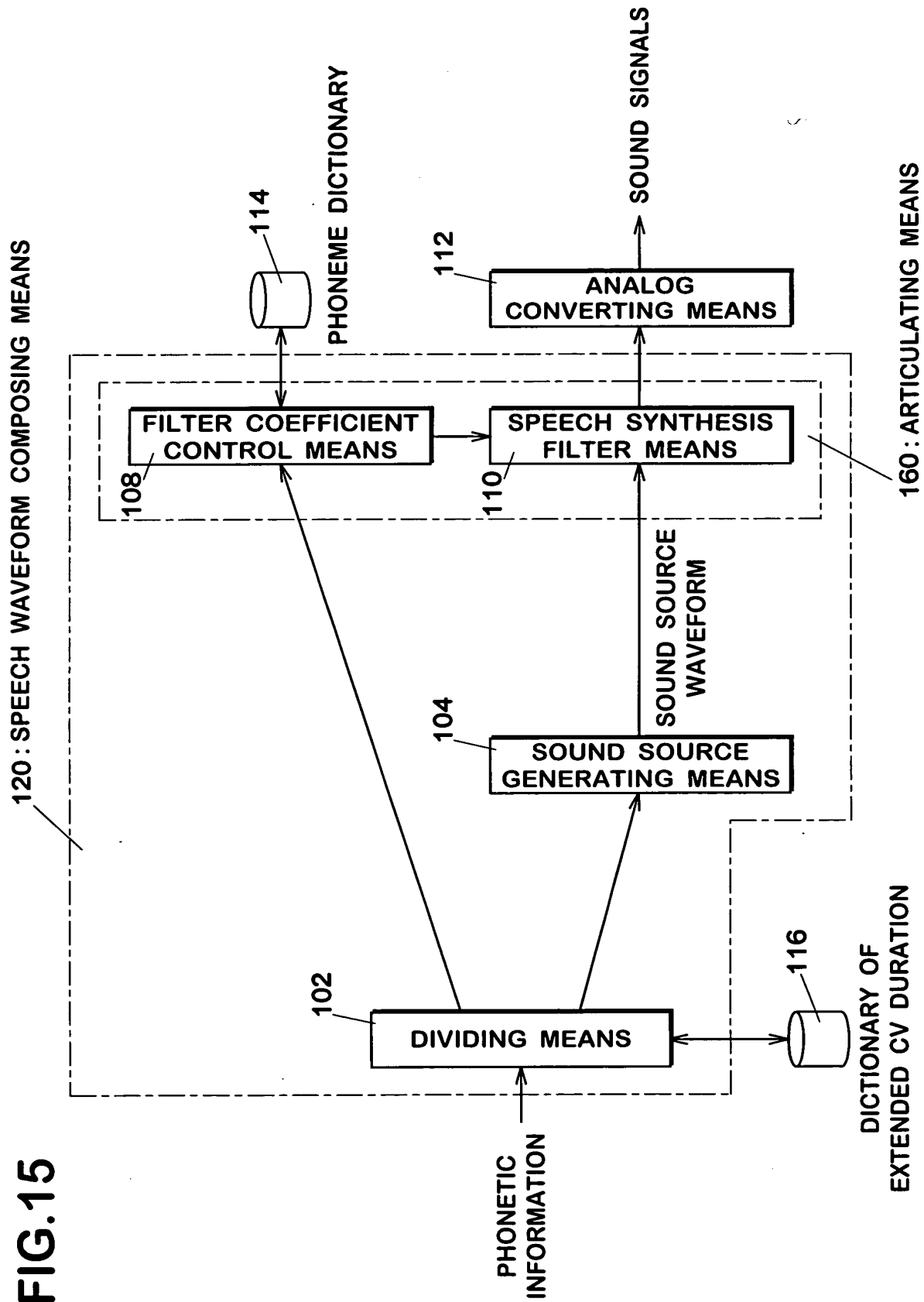


FIG.16

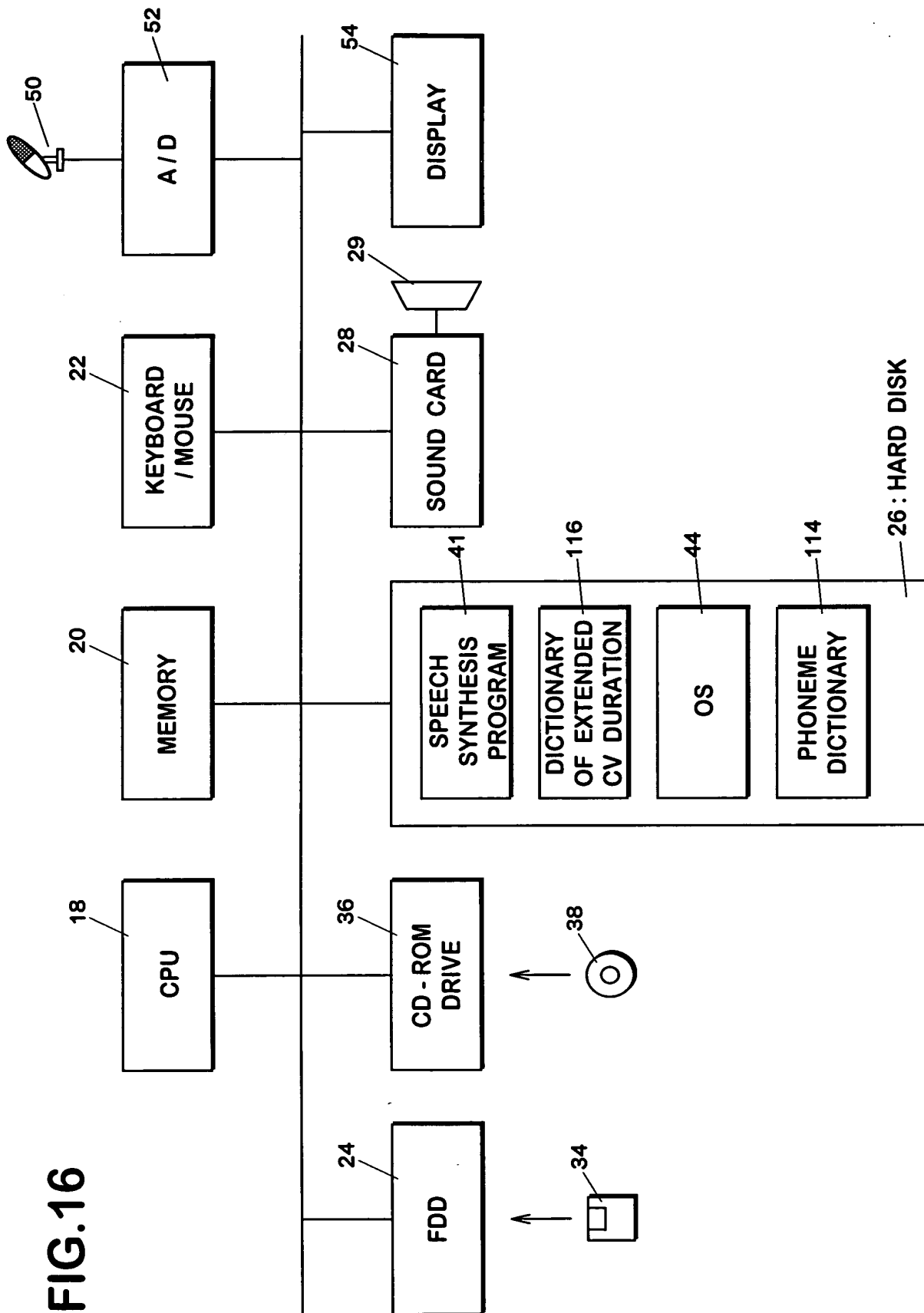


FIG.17

SPEECH SYNTHESIS PROCESSING PROGRAM

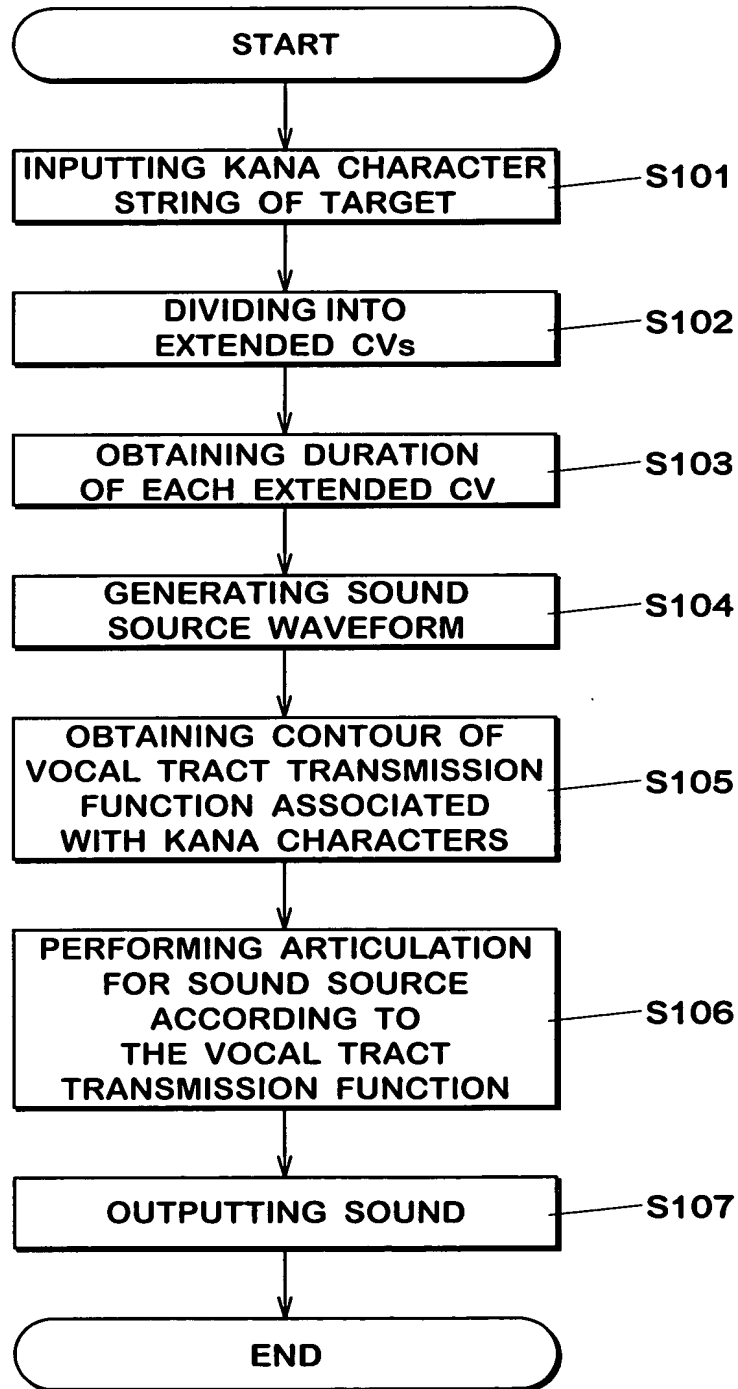


FIG.18

DICTIONARY OF EXTENDED CV DURATION

EXTENDED CV	DURATION : [MS]
CHU :	3 9 1
KO :	2 1 3
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FIG.19

PHONEME DICTIONARY

EXTENDED CV	TIME	VOCAL TRACT TRANSMISSION CHARACTERISTIC
CHU :	O } 2 ms	
	: : :	: : :
	383 } 391 ms	
: : :	: : :	: : :
ZUI	O } 3 ms	
	: : :	: : :
	201 } 223 ms	
: : :	: : :	: : :

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